FDOTC3D2017 CADD SOFTWARE

FDOTC3D2017 Maintenance Release 2 (MR2)

FDOTC3D2017 MR2 contains updates necessitated by changes to Design Standards, Plans Preparation Manual (PPM), and the Basis of Estimates (BOE) as well as bug fixes to address.

- Revisions per FDOT Design Bulletin.

- FDOT has retitled the current **Design Standards** to **Standard Plans for Road and Bridge Construction (Standard Plans)** effective the beginning of Fiscal Year 2018-19.
  (See Roadway Design Bulletin 17-06 & Structures Design Bulletin 17-05)

  This change has affected many components of the FDOT Civil 3D Statekit regarding references to specific Design Standard Indexes and their corresponding new Standard Plans Index number. Every effort has been made to address these components. To help during the transition, a crosswalk from the Design Standard Index and the new Standard Plans Index can be found as an attachment to the above referenced Roadway & Structures Design Bulletins.

- Update Templates to latest FDOT Standards.

- Pavement Markings Tool
  o Separator tab with added feature to allow user to define angle by two points in drawing for marker placement.
  o Pavement Marking Tool: Fixed issues with slash angle when typed on the separator user control.
- FDOT Civil 3D Pipe Network Rules
  o Added ability to select Arcs, Lines and Polylines to define Structure Rotation and Offset by object.
- Changed "FDOT Fence Type – Type All" to FDOT Fence – All Types"

- Updated Match Line Label styles for Left and Right side of Match lines to dynamically update when moved along an alignment.
- Add Share Well Request Support icon to FDOT Ribbon.
  o Allows user to submit an online ticket requesting help, comments, support...
  o Added Quick Clip Video
  o Added Documentation
- Corrected Spelling of Survey layer: from XSPatterLines_ep to XSPatternlines_ep

- FDOT Line Calculator
  o Fixed Issue with FDOT Line Calculator window not opening.
  o Edited LengthCalculator to LengthCalc
  o Added Version Number
  o Removed status boxes when clicking "Save to CSV"
  o CSV now is opened by the default program of the user.
- Sign Tool
  o Show warning on label placement.

- - Don't show "NONE" for labeling of State.
  - Updated code to not show NONE for any label lines, instead just remove that row.
  - Assembly copy names incomplete, stops at first "_".
  - Code now look at last "_" instead of first for names.

- Changed/Updated Scale of Control box block.

- Updated/Added new shortcut icons for CADD Website, FDOT C3D Quick Clips and Profile Scrubber.

- Entity Manager
  - Fixed issue with Keyhook being collected before application was complete and generating error message.

- Set XREFOVERIDE and VISRETAIN to 0.
  - Variable affects display and plotting, and works in conjunction with the VISRETAIN system variable. If you want the xref layers to retain their original layer settings, it is recommended to set VISRETAIN and XREFOVERRIDE system variables to 0.
  - Applied these setting to SYSVARMONITOR to track changes.

- Final Version of Revised Mast Arm palette per BOE changes taking effect July 1st.

- Updated Links and Contacts information.
  - Removed link to BOE Manual
  - Revised link to Cadd Manual

- Removed 3Shor, 4Shor, & 5Shor blocks from palette, must insert using EMX instead.

- Survey: Revised text on blocks to use true type fonts. Fixed miscellaneous cell graphics issues.

- Updated Blocks in the MUTCD.dwg : Revised fonts on some Sign Panels, removed duplicates, compared against the MUTCD manual.

- FDOT Take Off Manger and Quantity By Sheet:
  - Added ability to automatically remove unused columns on the following Summary Reports:
    Summary of Ditch Pavement
    Summary of Driveways
    Summary of Erosion Control
    Summary of French Drain
    Summary of Guardrail
    Summary of Misc. Asphalt
    Summary of Railing
    Summary of Sidewalk
    Summary of Turf and Prepared Soil Layer
    Summary of Turnouts
    Summary of Underdrain

- Set Profile Band Data to center Profiles to the center of the grid.

- Added Corridor Syle "FDOT-Parameter_Geometric Overide Display" to aid identifying frequency overrides.

- FDOT Subassemblies edits:
  - Added "Curb" Code to all Curb top links in FDOT Curb Subassemblies.
  - Added "Datum" to sod link for unpaved section of shoulder

- Updated Rule for PE Signature on digitalsignature.dwt

- Per PPM criteria Interstate Urban Facility requires a horizontal scale of 1"=500' and a vertical scale of 1"=5' or 1"=10. Added to affected .dwt's.
- PPM Vol2, Ch27 requires a Tabulation of Quantities Sheet for Utility Work by Highway Contractor plans, but no standard filename, TABQUW, was included in the CADD Manual.
  - Two new Survey Levels for the two new Feature Codes for Endangered Species. Level to apply to TOPORD and SURVRD Rules:
    -EndangeredL   Endangered Species Line
    -EndangeredP   Endangered Species Point
- Updated Station Equation Label to Match FDOT Standards.
- Added TreeRootPruning Linestyle.
- FDOT Daylight subassembly:
  - Corrected parameter name for BeginSlope and EndSlope
  - Added Variable Slope Daylight.
- Added FDOT Single Slope Median Traffic Railing Subassembly
- Added FDOT Non-Median Barrier Walls
- FDOT Milling and Paving:
  - Fixed match Slope hold elevation not connecting correctly.
  - Changed Mill and Pave target parameter names to match names in ATC file.
  - Added "Match Slope" instruction to Mill and Pave SA.
  - Corrected incorrect reporting of sampled slope, the correct slope was used for calculations and building.
- FDOT Existing Lane Slope Subassembly:
  - Added method to convert station double value to formatted string and convert slope to formatted string.
  - Report was not being generated if the last frequency station did not process because odd/zero pavement structures found. Moved code outside drawing code to process no matter status of last frequency station.
  - Corrected bug where if draw links was false the slope report was not generated.
  - Fixed Edge of Pavement default layer from PavtAsph_ep to PavtAsphalt_ep.
- Corrected broken links on Walls Help Document page.
- FDOT Shoulder Subassembly: Now Creates single "Top" link when both segments of shoulder are at the same slope.
- FDOT Pipe Network Rule:
  - Added ability to select a Curve on an alignment.
  - Added the ability to select a Line, Curve, Polyline object.
- FDOT Sidewalk Subassembly: Updated code to work correctly on the left side of the roadway.
- FDOT Fence:
  - Fixed error trying to load fence code.
  - Changed "Fence Type A" to "Fence Type All".